

U. S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration

In cooperation with
 Cotton Economic Research and
 Bureau of Business Research of
 The University of Texas at Austin

CLIMATOGRAPHY OF THE UNITED STATES NO. 20-41

LATITUDE $31^{\circ} 07' N$
 LONGITUDE $99^{\circ} 21' W$
 ELEV. (GROUND) 1748 ft.

STATION BRADY, TEXAS

CLIMATOLOGICAL SUMMARY

MEANS AND EXTREMES FOR PERIOD 1939 - 1968

Month	Temperature ($^{\circ}$ F)							Mean degree days * Mean	Precipitation Totals (Inches)							Mean number of days					
	Means			Extremes					Greatest daily Year	Snow, Sleet Year	Snow, Sleet			Temperatures		Max.	Min.	Month			
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year				Mean	Maximum monthly	Year	Greatest Depth	Year						
(a)	29	29	29	29	91	1943	0	1949	688	30	29	30	12	12	13	13	13	13			
Jan	58.5	31.7	45.1	91	1943	0	1949	688	1.52	2.33	1968	0.8	4.5	1947	1	1966	2	13	Jan		
Feb	62.3	35.4	48.9	90	1956+	0	1951	499	1.41	1.80	1945	0.8	8.8	1966	9	1966	4	0	Feb		
Mar	69.9	39.9	54.9	97	1967	11	1948	340	1.10	1.65	1968	0.1	2.0	1947	T	1965+	2	1	Mar		
Apr	78.8	51.6	65.2	99	1963	27	1951	98	2.58	2.30	1941	0	0	0	0	0	5	4	Apr		
May	84.3	60.3	72.3	104	1967	37	1945	15	3.50	3.16	1955	0	0	0	0	0	5	9	May		
Jun	91.3	67.3	79.3	106	1960	49	1964	1	2.32	3.47	1943	0	0	0	0	0	3	22	Jun		
Jul	95.3	70.2	82.8	108	1954	56	1942+	0	1.34	2.81	1961	0	0	0	0	0	2	28	Jul		
Aug	95.4	69.4	82.4	108	1962	54	1961	0	1.61	2.15	1966	0	0	0	0	0	3	27	Aug		
Sep	88.3	63.2	75.8	106	1953+	33	1942	5	3.05	3.43	1952	0	0	0	0	0	4	16	Sep		
Oct	79.9	52.7	66.3	103	1951	28	1957	82	2.28	4.57	1957	0	0	0	0	0	3	4	Oct		
Nov	68.3	40.5	54.4	92	1945	14	1950	327	1.36	1.48	1967	0.4	5.0	1957	5	1957	4	0	* Nov		
Dec	60.7	32.5	46.6	91	1954	11	1966+	590	1.20	2.56	1960	0.1	1.5	1967	T	1963	3	0	0 Dec		
Year	77.8	51.2	64.5	108	Aug. 1962+	0	Feb. 1951	2645	23.27	4.57	Oct. 1957	2.2	8.8	Feb. 1966	9	Feb. 1966	40	111	2	63	0 Year

(a) Average length of record, years.

+ Also on earlier dates, months, or years.

T Trace, an amount too small to measure.

* Less than one half.

** Base 65° F

THE CLIMATE OF BRADY, TEXAS

Located near the geographical center of the State, in the popular Texas Hill Country, Brady is the county seat of McCulloch County, and a wool market for the surrounding ranch country. Industries include peanut processing and sand processing plants. A hospital and nursing home are located here also. Two thousand-acre Brady Reservoir on Brady Creek affords a variety of water sports activities. Lakeside facilities include boat ramps, docking and service facilities, resorts, camps, and vacation or retirement homes. Fishing is a year round sport. The reservoir is located about three miles west of Brady. McCulloch County is hilly and rolling, drained by the Colorado and San Saba Rivers, and by Brady Creek. Elevations range from 1,300 to 2,000 feet above sea level. Agricultural production includes grains, cotton, peanuts, sheep, goats, and cattle. Besides agribusinesses, hunting and tourism are important.

The climate of Brady is subtropical with dry winters and hot humid summers. Mean total precipitation is 23.27 inches annually. Peak rainfall periods occur in late spring and early fall, while winter and mid-summer are relatively dry periods. In an average year, approximately 72 percent of the rainfall occurs during the warm season, April through October. Most precipitation falls in the form of thunderstorms that show considerable variation both in the amount of water received and in the areas covered. Warm, dry weather predominates, although changes may be rapid during the cool season. Prevailing winds have a southerly component during all months. The prevailing wind direction is south-southeasterly, April through September. The area receives approximately 65 percent of the total possible sunshine annually, while mean annual evaporation is 65 inches. The mean annual relative humidity is 7 percent at 6:00 a.m., 51 percent at noon, and 45 percent at 5 p.m., Central Standard Time. In the relatively dry climate of Brady, evaporative-type home air conditioners are effective for cooling approximately 90 percent of the time during the warmest months, July and August.

Winter temperatures are mild. Only about two days during the season does the maximum temperature fail to exceed 32° F. A minima of 32° F or below occurs on about two out of three nights. Rapid drops in temperature occur when Polar Canadian air masses plunge southward across Texas, but periods of very cold weather rarely last longer than 48 to 72 hours. Short periods of warm sunny weather often occur in January and February. Winter is a relatively dry season at Brady. Precipitation most often falls as light rain; but freezing rain, sleet, or snow may occur also. Snowfall in the area is almost negligible. A few exceptionally heavy snowfalls bias the long term arithmetic mean so that this statistic is a poor estimate of expected snowfall.

Spring is a season of many weather changes; however, temperatures are quite mild. March is a relatively dry month, but thundershowers increase in April and occur with greatest frequency in May. On rare occasions a late spring or early summer thunderstorm may be accompanied by damaging winds or hail. March and April are the windiest months of the year.

Summer daytime temperatures are hot. Maxima of 90° F or above occur almost every day, and temperatures of 100° F are not uncommon. July and August are relatively dry, with little variation in the day-to-day sequence of the weather.

Fall is a delightful season at Brady. Temperatures are moderate, and frequent changes add greater variety to the weather than is the case in summer. Precipitation increases significantly in September, then decreases as the fall season progresses.

The warm season (freeze free period) averages 226 days at Brady. The mean dates of the last occurrence of 32° F or below in the spring and the first occurrence of 32° F or below in the fall are March 31 and November 12, respectively. Thunderstorms occur on 36 days during an average year.

BRADY, TEXAS

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1939	49.7	47.2	59.4	66.3	74.7	81.3	82.6	80.1	77.4	-	-	-	-
1940	46.4	-	60.5	65.2	74.6	74.6	79.9	80.2	73.8	66.8	52.5	49.0	-
1941	49.4	47.8	51.0	64.0	72.6	76.2	80.2	81.3	76.3	69.2	54.1	48.7	64.2
1942	43.1	49.3	55.7	65.1	70.2	79.3	80.4	79.2	71.8	59.2	49.8	42.7	-
1943	46.0	54.2	55.4	68.4	72.9	79.6	82.3	80.4	73.2	63.8	53.4	45.6	64.0
1944	45.6	51.8	55.0	65.4	70.1	79.4	84.0	82.0	74.2	65.2	56.2	44.3	64.4
1945	47.2	51.8	62.1	62.4	72.4	74.4	83.4	82.2	77.8	63.6	55.1	51.6	66.0
1946	44.8	52.0	60.0	68.6	71.8	77.8	83.4	80.6	75.0	68.3	55.1	46.4	65.4
1947	43.8	44.0	51.9	60.0	72.0	80.6	82.8	81.8	77.0	72.8	52.3	49.0	64.3
1948	48.1	54.6	68.6	74.9	81.7	82.6	72.8	72.8	62.9	52.3	49.9	49.3	-
1949	39.8	50.1	55.5	58.6	72.5	78.5	83.1	80.3	75.2	63.5	57.9	50.6	63.8
1950	50.9	51.8	55.0	64.0	72.0	77.3	81.7	75.9	70.4	53.9	46.0	40.9	-
1951	44.7	47.7	57.3	63.9	72.7	79.5	85.5	86.4	78.3	70.1	52.0	50.6	65.8
1952	54.1	52.8	54.9	62.6	71.1	79.8	82.9	87.4	74.7	62.8	53.9	48.1	65.4
1953	53.1	50.2	61.1	63.5	71.7	84.9	84.2	77.9	77.7	66.9	53.3	44.8	66.2
1954	48.3	56.8	57.1	70.8	70.9	81.4	86.6	85.6	80.7	69.4	55.6	51.6	67.9
1955	46.9	48.1	58.4	70.1	75.2	78.1	78.5	75.2	70.5	52.3	47.3	47.3	65.8
1956	47.2	48.4	57.2	65.1	75.1	83.7	85.3	83.9	77.4	66.3	52.3	49.9	63.3
1957	46.0	56.0	55.1	61.6	68.9	77.9	85.1	84.4	73.5	62.3	50.8	48.8	60.2
1958	43.1	43.4	47.8	63.6	70.1	80.9	83.1	74.6	74.8	62.6	53.6	42.9	62.1
1959	42.5	46.4	54.0	64.6	72.7	78.5	79.7	81.1	78.8	63.2	50.0	49.1	63.1
1960	45.4	50.2	65.7	64.5	72.0	76.4	77.4	76.0	77.4	68.8	55.5	43.9	-
1961	41.2	50.0	57.8	64.9	72.0	75.9	77.1	78.8	74.1	65.9	50.8	45.8	-
1962	40.0	56.0	51.3	63.3	75.1	77.9	84.6	85.8	77.7	70.4	54.4	46.2	65.2
1963	38.5	48.0	59.3	69.6	78.0	79.6	84.9	78.0	69.7	56.3	39.7	36.1	65.1
1964	45.9	43.7	55.6	65.9	75.8	79.7	84.2	84.4	78.1	63.1	56.9	46.6	64.9
1965	49.7	43.7	48.6	67.7	71.0	77.9	82.5	81.5	77.6	63.4	48.9	46.3	-
1966	39.1	42.8	54.8	54.8	64.0	72.1	77.7	80.4	77.7	63.4	58.5	46.5	65.6
1967	45.8	48.5	61.4	72.0	71.8	81.1	82.3	79.1	68.4	62.0	51.1	41.0	-
1968	44.6	42.3	52.0	63.3	70.5	-	-	80.7	73.1	68.7	53.8	-	-

SATION HISTORY

Temperature and precipitation observations began at Brady in January 1888. The station was located on the town square. Records are fairly complete through April 1897. New observations were taken at Brady from May 1897 through February 1937. A station was reestablished at Brady on March 4, 1937, the residence of the observer, Nola Myers, located 0.4 mile south-southeast of the post office building in Brady. Except for a few minor gaps, records have been continuous since that date. The station has remained within 0.4 mile of the post office until July 13, 1968, when it was moved to the home of the new observer, located outside the city limits of Brady, 1.5 miles southeast of the post office building. Tom Bradley, Jr., was appointed the cooperative observer on this date. On April 12, 1967, Thomas J. Parker was appointed observer, and the station moved to his ranch home, 1.8 miles north-northwest of Brady. Station equipment consists of a cotton region shelter, maximum and minimum thermometers, standard 8-inch rain gauge, and 12-inch recording rain gauge. Temperature and 24-hour total precipitation are published monthly in *Oklimatological Data-Texas*, and hourly precipitation data are published monthly in *Hourly Precipitation Data-Texas*, under the name Brady 2009, station index number, 4-10177-00.

ESSA State Climatologist for Texas
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March 1970

Single copies of this summary are available without charge from the Bureau of Business Research, The University of Texas, Austin, Texas 78712. Quantity rates upon request.

Total Precipitation (Inches)													
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1939	3.24	0.58	0.25	1.49	3.47	0.87	1.91	2.04	0.68	1.62	3.09	1.26	20.39
1940	0.59	0.74	0.51	3.15	3.81	0.37	2.91	0.21	2.67	3.20	2.75	2.75	27.59
1941	1.91	1.92	3.57	7.10	2.84	6.43	4.09	0.27	5.00	1.67	4.09	0.27	40.74
1942	0.95	0.38	0.27	5.00	1.67	1.34	1.34	0.28	2.89	1.35	0.28	1.35	23.74
1943	0.27	1.44	1.66	1.89	2.85	4.63	0.01	T	6.65	0.82	1.52	2.91	23.01
1944	1.97	2.94	1.44	1.44	1.44	1.39	0.19	0.79	0.19	3.44	3.69	3.73	30.81
1945	1.45	3.06	1.80	1.80	1.80	1.71	1.00	3.52	1.04	1.74	2.07	0.07	26.64
1946	1.85	1.10	0.83	3.00	4.59	0.78	0.94	1.03	0.94	1.46	1.55	1.16	22.97
1947	2.75	0.47	2.47	1.82	1.82	1.82	1.82	0.48	0.48	2.47	1.51	0.94	17.97
1948	0.22	1.31	0.45	0.36	0.92	2.91	1.20	2.35	2.35	2.35	1.18	1.21	0.80
1949	3.90	3.23	0.97	3.23	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	28.05
1950	1.39	1.52	0.17	2.86	4.45	1.48	1.48	1.48	1.48	1.48	1.48	1.48	18.48
1951	-	0.55	1.27	1.63	3.93	2.31	0.09	0.72	2.16	0.11	3.57	0.13	-
1952	0.15	0.36	1.04	1.04	6.91	0.74	0.74	0.53	0.53	0.53	2.02	2.01	25.30
1953	0.10	0.87	1.30	0.36	1.86	2.98	1.05	0.98	0.98	0.98	3.03	0.11	15.61
1954	0.24	0.13	0.07	0.07	0.87	1.87	1.87	1.87	1.87	1.87	2.46	0.28	13.98
1955	0.94	1.90	0.50	1.13	7.17	3.25	1.76	2.41	2.41	2.41	0.35	0.35	22.81
1956	0.76	1.44	0.93	1.63	3.80	1.37	1.42	1.42	1.42	1.42	1.57	0.51	100
1957	0.74	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	12.62
1958	2.74	2.74	2.00	3.65	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.48	37.94
1959	T	1.60	2.24	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	3.34	30.74
1960	2.29	1.48	0.96	1.66	0.99	0.35	0.35	0.35	0.35	0.35	0.35	0.35	26.85
1961	2.29	2.11	0.32	0.92	7.32	5.87	5.87	5.87	5.87	5.87	3.59	3.59	27.71
1962	0.09	0.77	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	13.95
1963	0.24	1.28	0.14	1.78	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	17.50
1964	2.05	1.36	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	25.38
1965	1.62	1.32	1.12	4.10	4.48	5.41	5.41	4.10	4.10	4.10	4.10	4.10	25.01
1966	0.51	1.52	1.52	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	20.10
1967	T	0.42	0.82	2.06	5.54	3.93	3.93	3.93	3.93	3.93	3.93	3.93	12.68
1968	6.39	1.78	1.78	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71	31.76

Temperature and Precipitation

